

Building Site Development

Benton County, Iowa

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
11B: Colo-----	60	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	1.00 0.80	Very limited Flooding Depth to saturated zone	1.00 1.00
Ely-----	35	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Very limited Depth to saturated zone	0.95	Not limited	
41: Sparta-----	100	Not limited		Very limited cutbanks cave	0.90	Somewhat limited Droughty	0.06
41B: Sparta-----	100	Not limited		Very limited cutbanks cave	0.90	Somewhat limited Droughty	0.06
41C: Sparta-----	100	Not limited		Very limited cutbanks cave	0.90	Somewhat limited Droughty	0.06
41D: Sparta-----	100	Somewhat limited Slope	0.63	Very limited cutbanks cave Slope	0.90 0.63	Somewhat limited Slope Droughty	0.63 0.06
51: Vesser-----	95	Very limited Frost action Flooding Low strength Shrink-swell Depth to saturated zone	1.00 1.00 1.00 0.50 0.19	Very limited Depth to saturated zone Flooding	1.00 0.60	Somewhat limited Flooding Depth to saturated zone	0.60 0.19

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54: Zook-----	100	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Flooding Too clayey	1.00 0.60 0.01	Very limited Depth to saturated zone Flooding	1.00 0.60
63B: Chelsea-----	100	Not limited		Very limited cutbanks cave	0.90	Somewhat limited Droughty	0.48
63C: Chelsea-----	100	Not limited		Very limited cutbanks cave	0.90	Somewhat limited Droughty	0.48
63D: Chelsea-----	100	Very limited Slope	0.96	Very limited Slope cutbanks cave	0.96 0.90	Very limited Slope Droughty	0.96 0.48
63F: Chelsea-----	100	Very limited Slope	1.00	Very limited Slope cutbanks cave	1.00 0.90	Very limited Slope Droughty	1.00 0.48
65E2: Lindley-----	95	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope	1.00	Very limited Slope	1.00
65F: Lindley-----	95	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope	1.00	Very limited Slope	1.00
65F3: Lindley-----	95	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope	1.00	Very limited Slope	1.00

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83B: Kenyon-----	100	Somewhat limited Frost action	0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Low strength	0.22				
83C: Kenyon-----	100	Somewhat limited Frost action	0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Low strength	0.22				
83C2: Kenyon-----	100	Somewhat limited Frost action	0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Low strength	0.22				
83D: Kenyon-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Frost action	0.50	Depth to saturated zone	0.16		
		Low strength	0.22				
83D2: Kenyon-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Frost action	0.50	Depth to saturated zone	0.16		
		Low strength	0.22				
84: Clyde-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00				
		Low strength	1.00				
		Shrink-swell	0.50				
109C: Backbone-----	100	Somewhat limited Frost action	0.50	Very limited Depth to hard bedrock	1.00	Somewhat limited Depth to bedrock	0.46
		Depth to hard bedrock	0.46	Too clayey	0.01	Droughty	0.04
		Slope	0.01	Slope	0.01	Slope	0.01

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110B: Lamont-----	100	Somewhat limited Frost action	0.50	Very limited cutbanks cave	0.90	Not limited	
110C: Lamont-----	100	Somewhat limited Frost action	0.50	Very limited cutbanks cave	0.90	Not limited	
118: Garwin-----	100	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
119: Muscatine-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Very limited Depth to saturated zone	0.95	Not limited	
119B: Muscatine-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Very limited Depth to saturated zone	0.95	Not limited	
120: Tama-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
120B: Tama-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
120C: Tama-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
120C2: Tama-----	100	Very limited Frost action Low strength Shrink-swell	 1.00 1.00 0.50	Not limited		Not limited	
122: Sperry-----	100	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone	 1.00	Very limited Depth to saturated zone	 1.00
127: Wiota-----	100	Very limited Frost action Low strength Shrink-swell	 1.00 1.00 0.50	Very limited cutbanks cave	 0.90	Not limited	
133: Colo-----	100	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	 1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	 1.00 0.60	Very limited Depth to saturated zone Flooding	 1.00 0.60
159: Finchford-----	100	Not limited		Very limited cutbanks cave	 0.90	Somewhat limited Droughty	 0.42
162B: Downs-----	100	Very limited Frost action Low strength Shrink-swell	 1.00 1.00 0.50	Not limited		Not limited	
162C: Downs-----	100	Very limited Frost action Low strength Shrink-swell	 1.00 1.00 0.50	Not limited		Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
162C2: Downs-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
162D: Downs-----	100	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.63 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
162D2: Downs-----	100	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.63 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
163B: Fayette-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
163C: Fayette-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
163C2: Fayette-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
163D: Fayette-----	100	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.63 0.50	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
163D2: Fayette-----	100	Very limited Frost action Low strength Slope Shrink-swell	 1.00 1.00 0.63 0.50	Somewhat limited Slope	 0.63	Somewhat limited Slope	 0.63
163E: Fayette-----	100	Very limited Frost action Low strength Slope Shrink-swell	 1.00 1.00 1.00 0.50	Very limited Slope	 1.00	Very limited Slope	 1.00
163E2: Fayette-----	100	Very limited Frost action Low strength Slope Shrink-swell	 1.00 1.00 1.00 0.50	Very limited Slope	 1.00	Very limited Slope	 1.00
163F: Fayette-----	100	Very limited Slope Frost action Low strength Shrink-swell	 1.00 1.00 1.00 0.50	Very limited Slope	 1.00	Very limited Slope	 1.00
163F2: Fayette-----	100	Very limited Slope Frost action Low strength Shrink-swell	 1.00 1.00 1.00 0.50	Very limited Slope	 1.00	Very limited Slope	 1.00
163G: Fayette-----	100	Very limited Slope Frost action Low strength Shrink-swell	 1.00 1.00 1.00 0.50	Very limited Slope	 1.00	Very limited Slope	 1.00
171B: Bassett-----	100	Somewhat limited Frost action Low strength	 0.50 0.22	Somewhat limited Depth to saturated zone	 0.16	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
171C: Bassett-----	100	Somewhat limited Frost action	0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Low strength	0.22				
171C2: Bassett-----	100	Somewhat limited Frost action	0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Low strength	0.22				
171D: Bassett-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Frost action	0.50	Depth to saturated zone	0.16		
		Low strength	0.22				
171D2: Bassett-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Frost action	0.50	Depth to saturated zone	0.16		
		Low strength	0.22				
175: Dickinson-----	100	Somewhat limited Frost action	0.50	Very limited cutbanks cave	0.90	Not limited	
175B: Dickinson-----	100	Somewhat limited Frost action	0.50	Very limited cutbanks cave	0.90	Not limited	
175C: Dickinson-----	100	Somewhat limited Frost action	0.50	Very limited cutbanks cave	0.90	Not limited	
177: Saude-----	100	Not limited		Very limited cutbanks cave	0.90	Not limited	
177B: Saude-----	100	Not limited		Very limited cutbanks cave	0.90	Not limited	

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177C: Saude-----	95	Not limited		Very limited cutbanks cave	0.90	Not limited	
178: Waukee-----	95	Not limited		Very limited cutbanks cave	0.90	Not limited	
178B: Waukee-----	100	Not limited		Very limited cutbanks cave	0.90	Not limited	
184B: Klinger-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	0.95	Not limited	
		Low strength	1.00				
		Shrink-swell	0.50				
198B: Floyd-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	0.95	Not limited	
		Shrink-swell	0.50	cutbanks cave	0.90		
207C: Whalan-----	95	Very limited Low strength	1.00	Very limited Depth to hard bedrock	1.00	Somewhat limited Depth to bedrock	0.46
		Frost action	0.50	Too clayey	0.28		
		Depth to hard bedrock	0.46				
214C: Rockton-----	95	Somewhat limited Shrink-swell	0.50	Very limited Depth to hard bedrock	1.00	Somewhat limited Depth to bedrock	0.46
		Frost action	0.50	Too clayey	0.28		
		Depth to hard bedrock	0.46				
		Low strength	0.22				

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220: Nodaway-----	95	Very limited Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 0.50	Somewhat limited Flooding Depth to saturated zone	0.80 0.61	Very limited Flooding	1.00
221B: Palms-----	95	Very limited Depth to saturated zone Subsidence Frost action	1.00 1.00 1.00	Very limited Depth to saturated zone Content of organic matter	1.00 1.00	Very limited Depth to saturated zone Content of organic matter	1.00 1.00
226: Lawler-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone cutbanks cave	0.95 0.90	Not limited	
284: Flagler-----	100	Not limited		Very limited cutbanks cave	0.90	Not limited	
284B: Flagler-----	100	Not limited		Very limited cutbanks cave	0.90	Not limited	
285C: Burkhardt-----	100	Not limited		Very limited cutbanks cave	0.90	Somewhat limited Droughty	0.69
291: Atterberry-----	100	Very limited Frost action Low strength Depth to saturated zone	1.00 1.00 0.19	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.19
293C: Chelsea-----	40	Not limited		Very limited cutbanks cave	0.90	Somewhat limited Droughty	0.48

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Lamont-----	30	Somewhat limited Frost action	0.50	Very limited cutbanks cave	0.90	Not limited	
Fayette-----	20	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Not limited		Not limited	
293D: Chelsea-----	40	Very limited Slope	0.96	Very limited Slope cutbanks cave	0.96 0.90	Very limited Slope Droughty	0.96 0.48
Lamont-----	30	Very limited Slope Frost action	0.96 0.50	Very limited Slope cutbanks cave	0.96 0.90	Very limited Slope	0.96
Fayette-----	20	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.96 0.50	Very limited Slope	0.96	Very limited Slope	0.96
293F: Chelsea-----	40	Very limited Slope	1.00	Very limited Slope cutbanks cave	1.00 0.90	Very limited Slope Droughty	1.00 0.48
Lamont-----	30	Very limited Slope Frost action	1.00 0.50	Very limited Slope cutbanks cave	1.00 0.90	Very limited Slope	1.00
Fayette-----	20	Very limited Slope Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Slope	1.00	Very limited Slope	1.00
302B: Coggon-----	100	Somewhat limited Frost action Low strength	0.50 0.22	Somewhat limited Depth to saturated zone	0.16	Not limited	

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302C: Coggon-----	100	Somewhat limited Frost action	0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Low strength	0.22				
302C2: Coggon-----	100	Somewhat limited Frost action	0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Low strength	0.22				
315: Fluvaquents-----	95	Very limited Not Rated (miscellaneous unit)	1.00	Very limited Slope	1.00	Very limited Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Slope	1.00
		Slope	1.00	Not Rated (miscellaneous unit)	1.00	Depth to saturated zone	1.00
		Flooding	1.00	Flooding	0.80	Not Rated (miscellaneous unit)	1.00
		Low strength	1.00				
350: Waukegan-----	100	Very limited Low strength	1.00	Very limited cutbanks cave	0.90	Not limited	
350B: Waukegan-----	100	Very limited Low strength	1.00	Very limited cutbanks cave	0.90	Not limited	
352B: Whittier-----	100	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Very limited cutbanks cave	0.90	Not limited	
377B: Dinsdale-----	100	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Low strength Shrink-swell	1.00 0.50				

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377C: Dinsdale-----	100	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Low strength	1.00				
		Shrink-swell	0.50				
377C2: Dinsdale-----	100	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.16	Not limited	
		Low strength	1.00				
		Shrink-swell	0.50				
382: Maxfield-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00				
		Low strength	1.00				
		Shrink-swell	1.00				
391B: Clyde-----	60	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00				
		Low strength	1.00				
		Shrink-swell	0.50				
Floyd-----	40	Very limited Frost action	1.00	Very limited Depth to saturated zone	0.95	Not limited	
		Shrink-swell	0.50	cutbanks cave	0.90		
398: Tripoli-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00				
		Low strength	0.22				
399: Readlyn-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	0.95	Not limited	

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407B: Schley-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.19
		Depth to saturated zone	0.19				
408B: Olin-----	100	Somewhat limited Frost action	0.50	Not limited		Not limited	
408C: Olin-----	100	Somewhat limited Frost action	0.50	Not limited		Not limited	
412C: Sogn-----	100	Very limited Depth to hard bedrock	1.00	Very limited Depth to hard bedrock	1.00	Very limited Depth to bedrock	1.00
		Low strength	1.00			Droughty	0.92
		Shrink-swell	0.50			Content of large stones	0.01
		Frost action	0.50				
412D: Sogn-----	100	Very limited Depth to hard bedrock	1.00	Very limited Depth to hard bedrock	1.00	Very limited Depth to bedrock	1.00
		Low strength	1.00	Slope	0.96	Slope	0.96
		Slope	0.96			Droughty	0.92
		Shrink-swell	0.50			Content of large stones	0.01
		Frost action	0.50				
412F: Sogn-----	100	Very limited Depth to hard bedrock	1.00	Very limited Depth to hard bedrock	1.00	Very limited Depth to bedrock	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00			Droughty	0.92
		Shrink-swell	0.50			Content of large stones	0.01
		Frost action	0.50				

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420: Tama-----	100	Very limited Frost action Low strength Shrink-swell	 1.00 1.00 0.50	Not limited		Not limited	
420B: Tama-----	100	Very limited Frost action Low strength Shrink-swell	 1.00 1.00 0.50	Not limited		Not limited	
426B: Aredale-----	100	Somewhat limited Frost action	 0.50	Very limited cutbanks cave	0.90	Not limited	
426C: Aredale-----	100	Somewhat limited Frost action	 0.50	Very limited cutbanks cave	0.90	Not limited	
428B: Ely-----	95	Very limited Frost action Low strength Shrink-swell	 1.00 1.00 0.50	Very limited Depth to saturated zone	0.95	Not limited	
485: Spillville-----	95	Very limited Flooding Low strength Shrink-swell Frost action	 1.00 1.00 0.50 0.50	Very limited cutbanks cave Depth to saturated zone Flooding	0.90 0.61 0.60	Somewhat limited Flooding	0.60
536: Hanlon-----	95	Very limited Flooding Frost action	 1.00 0.50	Very limited cutbanks cave Depth to saturated zone Flooding	0.90 0.61 0.60	Somewhat limited Flooding	0.60

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727: Udolpho-----	100	Very limited Depth to saturated zone Frost action Low strength	1.00 1.00 1.00	Very limited Depth to saturated zone cutbanks cave	1.00 0.90	Very limited Depth to saturated zone	1.00
729B: Nodaway-----	60	Very limited Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 0.50	Somewhat limited Flooding Depth to saturated zone	0.80 0.61	Very limited Flooding	1.00
Radford-----	30	Very limited Frost action Flooding Low strength Depth to saturated zone	1.00 1.00 1.00 0.19	Very limited Depth to saturated zone Flooding	1.00 0.80	Very limited Flooding Depth to saturated zone	1.00 0.19
771B: Waubeek-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	
771C: Waubeek-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	
771C2: Waubeek-----	100	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Depth to saturated zone	0.16	Not limited	

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778: Sattre-----	100	Not limited		Very limited cutbanks cave	0.90	Not limited	
778B: Sattre-----	100	Not limited		Very limited cutbanks cave	0.90	Not limited	
782B: Donnan-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Not limited	
		Low strength Shrink-swell	1.00 0.50	Too clayey	0.36		
782C2: Donnan-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Not limited	
		Low strength Shrink-swell	1.00 0.50	Too clayey	0.36		
1043: Bremer-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	cutbanks cave	0.90		
		Low strength	1.00				
		Shrink-swell	1.00				
		Flooding	0.40				
1088: Nevin-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	0.95	Not limited	
		Low strength Shrink-swell	1.00 0.50	cutbanks cave	0.90		
1119: Muscatine-----	95	Very limited Frost action	1.00	Very limited Depth to saturated zone	0.95	Not limited	
		Low strength Shrink-swell	1.00 0.50				

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1133: Colo-----	95	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding	1.00 0.80	Very limited Flooding Depth to saturated zone	1.00 1.00
1160: Walford-----	100	Very limited Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone cutbanks cave	1.00 0.90	Very limited Depth to saturated zone	1.00
1291: Atterberry-----	95	Very limited Frost action Low strength Depth to saturated zone	1.00 1.00 0.19	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.19
1485: Spillville-----	90	Very limited Flooding Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited cutbanks cave Flooding Depth to saturated zone	0.90 0.80 0.61	Very limited Flooding	1.00
1688: Koszta-----	95	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Very limited Depth to saturated zone cutbanks cave	0.95 0.90	Not limited	
5030: Pits, Limestone Quarry-----	100	Not rated		Not rated		Not rated	

Building Site Development

Benton County, Iowa

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
5040: Orthents-----	100	Not rated		Not rated		Not rated	